**Belarusian State University
Faculty of Mechanics and Mathematics
Department of nonlinear analysis and analysis of the economy**

**Annotation to the diploma work
"Financial models,**

**based on the Brownian motion"**

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Diploma work contains:

– 22 pages,

– 3 used sources.

Keywords: ZERO-DIMENTIONAL SPACE, COVER, SUBCOVER, PARTITION, LEBESGUE DIMENSION, SMALL INDUCTIVE DIMENSION, LARGE INDUCTIVE DIMENSION.

In the diploma paper the topological dimensions of metric spaces are explored. The meanings of small inductive dimension, large inductive dimension and covering dimension are introduced.

The aim of the diploma paper is to study the main properties of the topological dimensions and correlation between them.

The diploma paper has a theoretical nature. Its results can be used in the further research of metric spaces and dimension theory.